

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-175705

(43)Date of publication of application : 30.06.1998

(51)Int.Cl.

B65F 5/00

B08B 9/02

(21)Application number : 08-338806

(71)Applicant : NKK CORP

N K K SOGO SEKKEI KK

TOKYO GAS CO LTD

(22)Date of filing : 18.12.1996

(72)Inventor : OSHIDA EIJI

AOYANAGI KENJI

ONO TAKASHI

SHIODA ETSUSADA

FURUNO TAKASHI

SAKAI SHINJI

TAKAGI SHINICHI

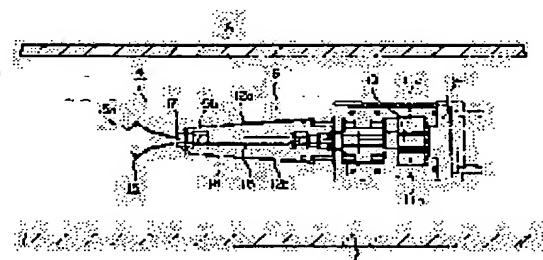
SAKAI TATSUYOSHI

(54) FOREIGN MATTER REMOVAL DEVICE FAR INSIDE OF PIPE

(57)Abstract:

PROBLEM TO BE SOLVED: To efficiently remove foreign matters clogged at narrow parts such as elbow parts, restriction nozzle parts and the like for pipes.

SOLUTION: The foreign matter removal device A mounted to the tip end of a lifting wire is inserted into the narrow part of a pipe 1 where foreign matters are clogged, by winding the wire out by a take-up machine provided for the outside of the pipe 1. A flexible tube 16 is curved with a positioning mechanism 6 driven so as to allow paws 15 to be approached to the foreign matters, and the foreign matters are thereby gripped by closing the paws 15 with a foreign matter holding jig driven. Subsequently the foreign matter removal device A is taken out of the pipe so as to allow the foreign matters to be thereby removed.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the
examiner's decision of rejection or application
converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office